UNIVERSITI TEKNOLOGI MARA

PERAK BRANCH

INTERLOCKING PAVER BLOCK BY INCORPORATING OF COCONUT SHELL

SITI NABILAH BINTI HUSSIN

2019268164

Innovation project report submitted in partial fulfilment of requirement for the degree of **Bachelor of Science (Hons.) Construction Technology**

Department of Built Environment Studies and Technologies

August 2022

AUTHOR'S DECLARATION

I declare that the work in this innovation project report was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This topic has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

In the event that my innovation project report, be found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my degree and agree be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

Name of Student	: Siti Nabilah binti Hussin
Student ID No	: 2019268164
Programme	:Bachelor of Science (Hons.) Construction Technology
Faculty	:Department of Built Environment Studies and Technologies
Innovation Title	:Interlocking Paver Block by Incorporating Of Coconut Shell
Signature of Student	:
Date	: August 2022

ACKNOWLEDGEMENT

With the blessing from the God, I would like to be thankful to Allah for giving me the time, health, and space to finish my task. I also want to take this opportunity to express my sincerely gratitude and appreciation to those who directly or indirectly give the support through my university life.

In addition, not to forget to send my special thanks to my lecturer for subject BCT654, 'Innovation Project 2', Dr. Asmat binti Ismail, and my supervisor, Madam Wan Nordiana Wan Ali for guiding me to complete this study and who was very encouraging and at the same time very demanding in order to motivate me to write a professional report. They also had been shared with me a lot of knowledge and invaluable assistance related to this subject theoretically and practically.

After an in-depth reading and literature review, I eventually completed the report. I have gone through several challenges to finish this study in order to fulfil the mission. Other than that, I also would like to thank to my classmates for sharing information and help me all the way to finish this innovation study report.

Last but not least, I would like to thank my parents, my family members and my love for their unconditional love, encouragement, and support in all aspects of life and study. Not to forget thank you to myself for not giving up. Thank you very much to all of you for the wonderful hands.

TABLE OF CONTENTS

ABSTRACT

A green campus is an international environment programme for a campus or institution that focuses on environmental concerns, innovation, and research, and incorporates it into day-to-day campus administration. The green campus idea allows a university to take the lead in redefining its environmental culture and establishing new paradigms by finding sustainable solutions to the world's environmental, social, and economic requirements. Thus, four broad groupings may be characterized including systems that use timber, steel, cast in situ concrete, and precast concrete where their main structural and space enclosing materials, and systems used precast concrete as their main structural and space enclosing materials. There are five IBS main groups that are used in Malaysia including precast concrete framing, panel and box systems, steel formwork systems, steel framing systems, prefabricated timber framing systems, and blockwork system. On the other hand, Industrialize Building System (IBS) is the industrialisation process which it is an investment in equipment, facilities, and technology with the goal of increasing output, reducing labour costs, and improving quality, whereas a building system is defined as a collection of interconnected elements that work together to enable a building's designated performance. Hence, in this innovation, the group of blockwork system has been chosen which is about interlocking paver block.